



## Statewide Transportation Plan - Background & Purpose -

- Develop Policy Guidance & Strategic Direction for NCDOT
- Federally Mandated (ISTEA & TEA-21)
- 2000 Transportation Finance Commission recommendation -- Efficiency Study # 8
- Inventory 25-year Needs
- Forecast Available Revenues
- Solicit Public & Stakeholder Interest
- Determine long-term Investment Priorities



### Statewide Transportation Plan - Who has been involved? -

- Board of Transportation
  - Statewide Plan Committee
- Senior NCDOT Management
- Technical Steering Committee (all modes)
- Division Engineers
- Stakeholder Groups / Citizens
  - Regional Forums / Newsletters / Outreach Events / Website
- Transportation Planning Branch Staff
  - Consultant Team



# Statewide Transportation Plan - Key Issues -

- \$84 Billion in Needs vs. \$55 Billion in Revenue
- Limited ability to address *pressing* needs
  - spending restrictions on state/federal dollars
  - flexibility is essential
- Maintenance Backlog
  - 4K miles of state highways & 260 bridges added each yr
- Demographic/Travel Trends
  - 1990-2000 population increased 21%; VMT increased nearly 40%
  - By 2020 population expands additional 25%



# Statewide Transportation Plan - Key Issues con't-

- Regional Differences and Needs
- Quality of life goals
  - air quality, environmental & community enhancement
- Lack of Performance Measuring
  - need goals, tracking systems, reporting mechanisms
- Department must Prioritize w/ Limited Resources
  - NCDOT cannot be all things to all people





## Statewide Transportation Plan - What North Carolinians said -

- More emphasis on having a modern, well-maintained system
- Willing to pay for smart, efficient, effective transportation improvements
- Quality transportation and an enhanced environment are paramount
- Assure economic competitiveness and balance
- Provide more transportation options





### Statewide Transportation Plan

- How were the needs quantified? -

#### Highways & Bridges

- HPMS Highway Performance Monitoring System
- BNIP Bridge Needs & Investment Process
- Maintenance Condition Assessment Report
- Non-hwy Modes
  - Source documentation (ex. Transit 2001, NC Rail Plan)
  - Significant staff input
- System-oriented analysis; not project/geographic specific





# Statewide Transportation Plan - Needs per Mode -

#### **\$84 Billion** (all modes; \$2001)

- 25-year "snapshot"
  - Highways & Bridges \$66.6 billion
  - ITS (Intelligent Transportation Systems) \$1.1 billion
  - Public Transportation \$10.6 billion
  - Rail (Passenger & Freight) \$4 billion
  - Ferry \$1.1 billion
  - Bicycle / Pedestrian \$300 million







<sup>•</sup> Aviation - \$1 billion\*

<sup>\*</sup> funding is self-contained; not in final scenario



### Statewide Transportation Plan - How were the needs illustrated? -

#### Improvement/Investment Categories

- Maintenance / Preservation routine treatments that restore to adequate level or sustain the condition of an asset & activities / treatments that protect the infrastructure and extend service life
- <u>Modernization</u> *upgrades* to system safety, functionality, & operational efficiency w/o adding physical capacity
- **Expansion** *new* construction/*new* services (beyond existing) and/or physically expanding capacity to an existing facility



# Statewide Transportation Plan - Safety Related Needs -

- \$5.3 Billion annual cost to NC motorists
- NC's traffic fatality rate is 13% higher than national average
- 32,000 miles of deficient pavement (40% of the system)
- 7,000 state bridges structurally deficient
- 8,800 miles--narrow lanes & shoulders; sharp curves
- Future needs almost uniformly split b/w: Expansion Maintenance/Pres. & Modernization
  - Future maintenance/preservation needs (over the next 25 year) expected to be almost \$25 billion
  - Future modernization needs (over the next 25 years) expected to be almost \$20 billion





## Statewide Transportation Plan - Revenue Forecast -

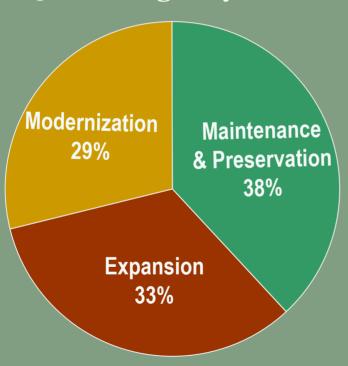
- \$55 Billion
- Assumptions made:
  - No new revenue sources over 25-years
  - Con't growth of state user fee "transfers"
  - Increases in fed/state funding at a conservative rate
  - Based on historical patterns; input from state office of planning and budget
  - Inflation assumed but discounted back to 2001 \$

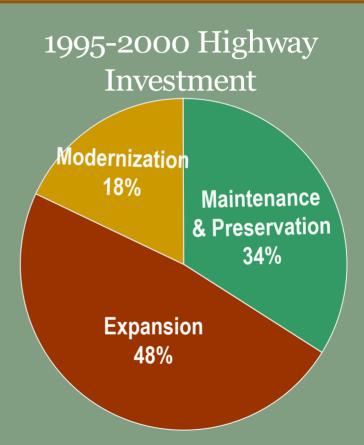




### How Do NC <u>Highway</u> Needs Compare with Recent Highway Investment?

25-Year Highway Needs





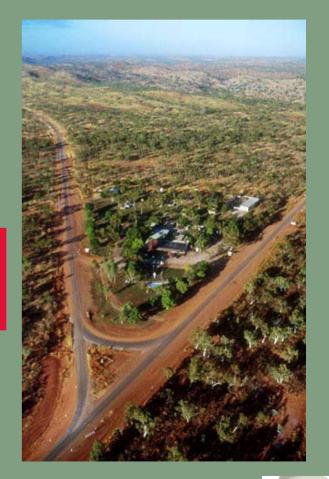




# Statewide Transportation Plan - Determining a Direction -

Revenue = \$55 Billion

Needs = \$84 Billion







### Statewide Transportation Plan

- What is an Investment Scenario? -

- Long-range Statewide Investment Strategy
  - program / capital goals
  - allocation of expected \$ within categories
  - financial framework; points to emphasis areas
- Fiscally constrained
- Investments reflect priorities
- Trade-offs (can retire only 2/3 of needs)





## Statewide Transportation Plan - Scenarios Considered -

- Modal Choice / Highway Preservation
  - Large increase for non-highway modes
  - Trade-offs: Hwy. Expansion and Modernization



- Statewide Facilities / Highway Expansion
  - Large increase in meeting Statewide travel needs
  - Most Hwy. Expansion needs met



- Modernization First
  - Majority of major Modernization needs met
  - Trade-offs: highway expansion, preservation





## Statewide Transportation Plan - Recommended Scenario -

#### A new Investment Direction:

- Underscores importance of <u>Safety</u> in all investments
- Creates a focus on preserving/upgrading the <u>EXISTING</u> transportation system
- Targets investment in statewide mobility
- Extends intent & emphases of Moving Ahead!
- Creates more transportation options
- Only addresses 2/3 of all projected needs





## Statewide Transportation Plan - Recommended Scenario -

#### Specifics - page 20 & 21 in Plan Report

- 75% of Maintenance & Preservation needs met
  - **\$22.6B** = **10%** increase from past
- 65% of Modernization needs met
  - \$15.6B = nearly 25% increase from past





### **Modernization improvement - BEFORE**





### **Modernization improvement - AFTER**





## Statewide Transportation Plan - Recommended Scenario -

#### Specifics - page 20 & 21 in Plan Report

- 75% of Maintenance & Preservation needs met
  - represents 10% increase from past
- Major Modernization emphasis (2/3 of needs met)
  - represents nearly 25% increase from past
- 2/3 of Highway Expansion needs met
- Increases investment in non-hwy modes (7% to 17%)





# Statewide Transportation Plan - Implementation -

- 2 Implementation Leadership Teams
  - Senior Management & BOT Statewide Plan Committee
- Pursue Greater Flexibility in Transportation Funding
- Improve Project Selection Process
- Monitor & Report Progress
- Establish Revision Cycles
- Implement Strategic Highway Corridors Concept
  - First tangible Action Item



### What are Strategic Highway Corridors?

"A set of <u>Existing</u> Highways Vital to Moving People and Goods within and just outside North Carolina"



#### SHC Goals

- ➤ Efficient, safer, & improved mobility between Activity Centers:
  - •Urban Areas with a Population of 20,000 or greater
  - •State Ports
  - Major Military Bases
  - •Major Intermodal Terminals
  - University of North Carolina System Campuses
  - •Major Hospitals/Trauma Centers
  - Major Tourist Attractions



#### SHC Goals

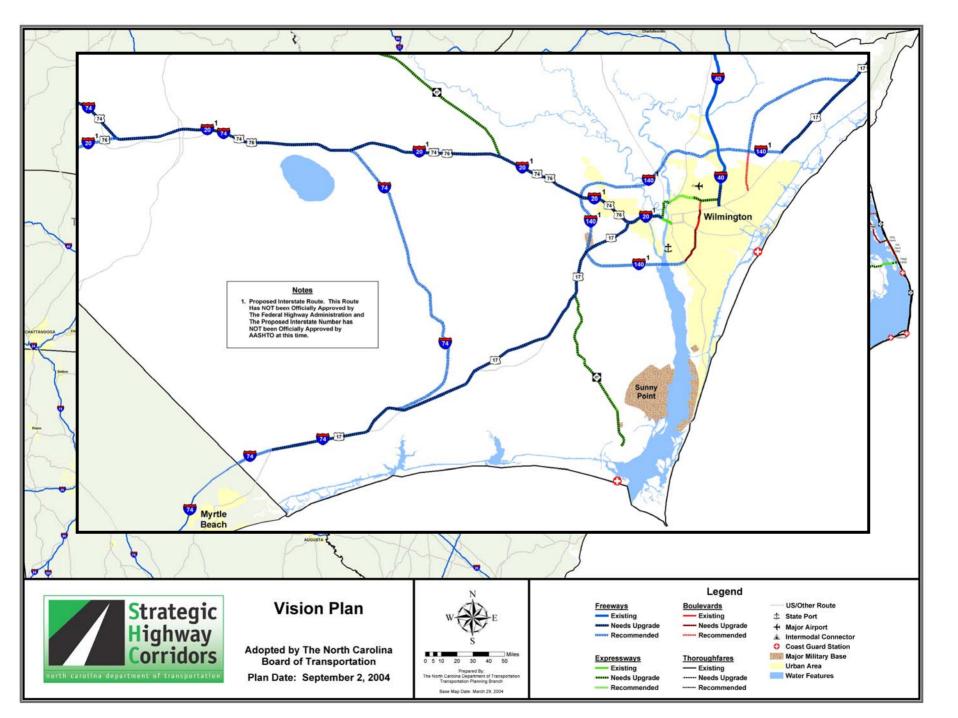
- > Create Broad based Vision for each Corridor
- > Affect Long-Term Decision Making
  - Systems Planning
  - Funding Decisions
  - Project Planning Decisions
  - Design Decisions
  - Day to Day Decisions (ex: Driveway Permits)
  - Local Land Use Decisions





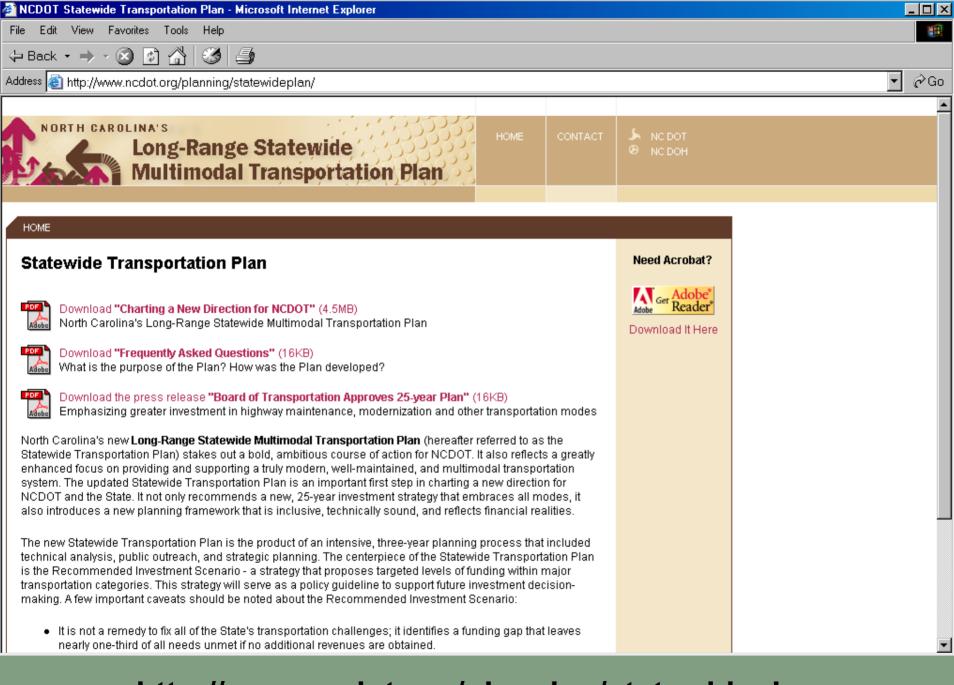








http://www.ncdot.org/planning/tpb/shc/



#### http://www.ncdot.org/planning/statewideplan



# Statewide Transportation Plan - Summary -

- Plan is a long-term Investment Blueprint
  - visionary; overarching policy for capital investment
- Only meets 2/3 of all projected needs
- Underscores the need for investment flexibility & maximizing the use of existing resources
- Plan is a "living document" -- updated every 4 years
- Implementation is the KEY!
  - Series of Action items must be sustained to achieve goals





# **Statewide Transportation Plan**- Final Thoughts -

